

ABSTRACT OF THE DISCLOSURE

There is provided a rotary encoder which can eliminate an angle error caused by an eccentricity from a measured angle without strictly adjusting hardware and which can also
5 eliminate a graduation error. Detection of a rotation angle of the rotating section and measurement of an error $E(\theta_n)$ included in the detected angle θ are performed in advance, an error function $E(\theta)$ represented by a periodic function of the detected angle θ is calculated on the basis of these values, a
10 storing means for storing the periodic function of the calculated error $E(\theta)$ is arranged, and an angle obtained by subtracting a value obtained by substituting the detected angle θ_a for variables in the error function $E(\theta)$ from the detected angle θ_a is displayed on a display unit.